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(54) Title: PHARMACEUTICAL COMPOSITION CONTAINING FENOFIBRATE AND POLYGLYCOLIZED GLYCERIDES

(57) Abstract

A pharmaceutical composition is provided for treating hyperlipidemia or hypercholesterolemia or both in a mammal, which contains an effective amount of each of fenofibrate and an excipient containing one or more polyglycolyzed glycerides.

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PHARMACEUTICAL COMPOSITION CONTAINING FENOFIBRATE AND POLYGLYCOLIZED GLYCERIDES

BACKGROUND OF THE INVENTION

5 Field of the Invention:

The present invention relates to a pharmaceutical dosage form of fenofibrate having enhanced bioavailability, as well as to an advantageous process for making the same.

Description of the Background:

- 10 Fenofibrate or p-(4-chlorobenzoyl)-phenoxy isobutyrate isopropyl ester is useful for the treatment of adult patients with very high elevations of serum triglyceride levels and/or cholesterol levels. The usual daily dosage is 300 mg which is administered in two or three doses.
- Fenofibrate is absorbed as fenofibric acid which is responsible for the pharmacological activity. Fenofibric acid resulting from the hydrolysis of fenofibrate is extensively bound to plasma albumin. The plasma half-life is about 20 hours. Fenofibric acid is excreted predominantly in the urine, mainly as the glucuronide conjugate, but also as a reduced form of fenofibric acid and its glucuronides.

Fenofibrate, is presently available in a pharmaceutical dosage form consisting of hard gelatin capsules containing fenofibrate, lactose starch and magnesium stearate. After oral administration, during a meal, about 60% of the dose of this conventional form is

effectively absorbed and found in the blood as fenofibric acid, the main metabolite responsible for pharmacological activity. (Strolin & Al, Act Pharmacal. Toxicol. 1986; 59 (Suppl. 5); 167).

The first attempt to improve the bioavailability of fenofibrate was performed by Ben-Armor and Al, by solubilizing the fenofibrate in dimethyl isosorbide, a nonaqueous solvent with a miscible wetting agent (Labrafil M 1944CS) with HLB of between 3-4. In order to use the product in capsules, colloidal silicon oxide was added to increase the viscosity. The liquid so obtained was placed in hard gelatin capsules which, to be leak proof, were sealed. In vivo studies with this formulation indicate that there was no statistically significant difference in bioavailability between this liquid formulation and the conventional form when the product was given with food.

European Patent Application 0330532 discloses a fenofibrate composition wherein the fenofibrate powder is co-micronized with a solid wetting agent. Sodium lauryl sulfate is described as the solid wetting agent of choice. The co-micronized powder so obtained is mixed with capsule filling excipient such as lactose, starch, polyvinyl pyrollidone and magnesium stearate. A formulation of this composition is actually available on the French market under the trade name Lypantyl 200 M®. A study comparing this formulation (Lypantyl 200 M®) to the conventional form

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was undertaken and a statistically significant increase in bioavailability was indicated for the former. In particular, it was found that 67 mg of the new form gives the same amount absorbed as does 100 mg of the conventional form. (J.L. Suichard & Al Cun Therapeutic Research Vol. 54, NS, Nov. 1993).

Unfortunately, co-micronization of the active drug fenofibrate with the wetting agent sodium lauryl sulfate, although necessary, is a time consuming and costly operation. Further, an inherent drawback of micronization is that the material obtained must comply with very stringent particle size specifications.

Moreover, the filling of hard gelatin capsules with a micronized powder is a difficult operation, particularly if weight variation homogeneity is considered.

Hence, a need exists for a fenofibrate formulation that avoids the use of co-micronization, while providing a bioavailability comparable to that afforded by the conventional fenofibrate formulation which uses co-micronization.

SUMMARY OF THE INVENTION

Accordingly, it is an object of the present invention to provide a fenofibrate formulation not requiring use of co-micronization which, nevertheless, exhibits a

bioavailability comparable to formulations of fenofibrate which do.

It is also an object of the present invention to provide a solid, oral dosage form of a fenofibrate formulation that can be prepared by melting the excipients in which the fenofibrate is soluble and, therefore, does not require any particle size specification.

The above objects and others are provided by a pharmaceutical composition for treating hyperlipidemia in and/or hypercholeslerolemia a mammal, which contains an effective amount of each of fenofibrate and an excipient containing one or more polyglycolized glycerides.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The present invention provides a pharmaceutical

formulation for treating hyperlipidemia and/or
hypercholesterolemia in a mammal, which contains an
effective amount of each of a fenofibrate composition and
an excipient which contains one or more polyglycolyzed
glycerides, the polyglycolyzed glycerides preferably having
an HLB value of at least about 10.

The prevent invention is also particularly advantageous for the production of oral solid dosage forms which can be prepared by melting the excipients in which the fenofibrate is soluble, whereby particle size specifications are not required.

The present invention also relates to the addition of a suspension stabilizer to the molten solution of fenofibrate-polyglycolyzed glycerides. The suspension stabilizer avoids the formation of fenofibrate crystals during the cooling of the filled hard gelatin capsules. Suitable suspension stabilizers which may be used are, for example, cellulose derivatives, such as hydroxypropylcellulose, hydroxypropylmethyl cellulose, methyl cellulose, and hydroxyethylcellulose, povidone, poloxamers, a, n-hydroxy-poly(oxyethylene) poly(oxypropylene)-poly(oxyethylene) bloc polymers. Other suspension stabilizers equivalent to these stabiliers may, of course, also be used.

The present invention is also particularly advantageous for the production of a pharmaceutical composition in that the hot, homogeneous fenofibrate solution is filled in hard gelatin capsules. This filling process permits the obtention of very precise fenofibrate amounts in each capsule.

The present invention is particularly advantageous as well for the production of the present pharmaceutical composition in that the process for manufacturing the composition requires very few steps such as melting, mixing and filling. This renders the present manufacturing process extremely cost effective when compared to one using co-micronization of powders.

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Polyglycolyzed glycerides which may be used in the present invention are generally mixtures of known monoesters, diesters and triesters of glycerols and known monoesters and diesters of polyethylene glycols with a mean relative molecular mass between about 200 and 6000. may be obtained by partial transesterification of triglycerides with polyethylene glycol or by esterification of glycerol and polyethylene glycol with fatty acids using known reactions. Preferably, the fatty acid component contains 8-22 carbon atoms, particularly 10-18 carbon atoms. Examples of natural vegetable oils which may be used include palm kernel oil and palm oil. However, these are only examples. The polyol suitably has a molecular weight in the range of about 200-6000 and preferably contains polyethylene glycol, although other polyols may be employed, such as polyglycerols or scrbitol. They are available on the market under the trade name Gelucire.

As noted above, the HLB of the polyglycolized glycerides is preferably at least about 10, and more 20 preferably between about 12 and 15. The melting point of the polyglycolized glycerides may be between about 18°C and 60°C. However, it is especially desirable to use polyglycolized glycerides having a melting point above 30°C, and preferably above 35°C, since there is no need for sealing the capsule, to assure the leak proofness thereof, when such excipients are used.

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Further, two or more polyglycolized glycerides may be mixed in order to adjust both the HLB value and the melting point to a desired value. The HLB value and melting point of the composition may further be adjusted with the addition of components such as polyethylene glycols, polyoxyethylene glycols fatty acid esters, and fatty acid alcohols. In view of the present specification, it is well within the skill of the artisan to mix the polyglycolized glycerides to obtain desired HLB values and melting points.

It has also been discovered that the present composition affords an increased bioavailability of the fenofibrate as compared to conventional formulations.

Although the present inventors do not wish to be bound by any particular theories, one plausible mechanism of operation for the present invention is that upon cooling, the melted mixture of hot fenofibrate-polyglycolized glycerides maintains the fenofibrate in liquid form. When absorbed in the gastrointestinal tract of a patient, the gastrointestinal fluids are able to dissolve the fenofibrate due to the HLB value of the excipient mixture, whereby fenofibrate is readily absorbed.

Generally, the composition of the present invention contains from about 5% to 95% by weight of fenofibrate and from about 95% to 5% by weight of excipient including one or more polyglycolized glycerides. It is preferred, however, if the present composition contains from about 20%

to 80% by weight of fenofibrate and from about 80% to 20% by weight of excipient. It is even more preferred, however, if the present composition contains from about 30% to 70% by weight of fenofibrate and from about 70% to 30% by weight of excipient.

In a particularly preferred composition, generally about 45% to 55% by weight of fenofibrate is used and about 55% to 45% by weight of excipient containing the one or more polyglycolyzed glycerides is used.

10 Generally, the method of the present invention entails adding one or more excipients, including the one or more polyglycolyzed glycerides to containing means and then heating the excipients until all components are melted. Then, fenofibrate is added slowly with continuous stirring until all fenofibrate added is dissolved. Stirring is then 15 continued for about 10 minutes to about 1 hour, and preferably for about 15 minutes to about 30 minutes. Then, containing means for the pharmaceutical composition, such as hard gelatin capsules, are filled with the composition 20 using a liquid filing capsule machine having dosing pumps which are heated to the same temperature as the temperature of the molten pharmaceutical composition. Generally, this temperature is about 55°C to about 95°C, more typically in the range of about 80°C to 90°C. Upon cooling to ambient temperature, the capsules are packed in bottles. When 25

capsules of size 3 are used, each capsule so prepared contains 67 mg of fenofibrate.

It is advantageous, however, to use the following protocol. To about 3 parts by weight polyglycolized glyceride excipient having a melting point of 44°C and an HLB value of 14 molten at 80°C, is added about 2 parts by weight of fenofibrate and about 1 part by weight of hydroxypropyl cellulose. After maintaining the solution under agitation for about 20 additional minutes, hard gelatin capsules are filled therewith.

The present invention will now be further described by reference to certain examples which are provided solely for purposes of illustration and are not intended to be limitative.

15 EXAMPLE 1

Fenofibrate	6.7 kg
Gelucire 44/14	5.0 kg
Polyoxamer 407	5.0 kg
	16.7 kg

In a stainless steel container, were introduced 5 kg of Gelucire® 44/14 and 5 kg of Poloxamer 407, which were then heated at 85°C until all components are molten. 6.7 kg of fenofibrate was added slowly while continuously stirring the mixture. When all of the fenofibrate was dissolved agitation was maintained for about twenty

minutes. Using a liquid filing capsule machine with dosing pumps heated at 85°C, capsules of size 3 was filled with 167 mg of solution. Upon cooling at room temperature the capsules were packaged in bottles. Each capsule so prepared contained 67 mg of fenofibrate.

PHARMACOKINETICAL STUDY

The composition of Example 1 was compared to conventional form in a pharmacokinetical study with 15 healthy subjects. Each subject received 3 capsules of composition of Example 1 (201 mg of fenofibrate) or 3 capsules of Lypantyl 1000 (300 mg of the conventional form). The sessions were separated by a wash out period of 7 days. The medications were taken after a high-fat breakfast. Blood samples were obtained before and at different times up to 72 hours after administration. The plasma concentration of fenofibric acid was determined in all available samples using a conventional HPLC method.

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		•		Plasma Fei	Plasma Fenofibric Acid Con-	c Acid	Concentr	nofibric Acid Concentration (mg. f vs. time (h) iles of Example 1 (Total amount of Fenofibrate		vs. time (h) Fenofibrate		After Administration administered: 201 mg)	ration oi mgl				
Post- dose time	-	7	r	•	~	9	8	6	10	11	12	13	14	15	16	Hean•	S
٥	BLOQ	91.00	81.00	8100	B1.00	BLOQ	0018	BLOQ	0078	B100	BLOQ	8100	B100	BL00	B1.00	•	•
	BL00	B1.00	0.42	8100	0.52	0.81	0.29	BLOQ	0.32	BLOQ	BL00	BLOQ	81.00	0.81	B100	0.21	0.30
~	0.36	0.34	3.87	4.31	5.10	9.00	4.66	94.9	2.56	BL00	66.0	1.09	3.84	3.03	0.75	2.89	2.19
	3.31	1.06	7.52	8.12	12.80	7.68	7.50	7.27	6.55	2.51	3.83	3.22	12.60	6.73	5.62	6.43	3.37
•	90.1	2.70	6.02	10.87	13.56	8.27	9.42	8.93	9.16	4.46	5.35	5.23	13.93	7.17	9.61	7.85	3.33
s	4.06	5.49	6.61	10.84	12.65	66.9	9.64	11.70	9.65	6 . 49	7.42	5.46	14.41	8.53	11.08	8.73	2.99
v	4.32	7.17	6.42	10.68	12.34	6.32	12.19	16.75	11.64	9.75	12.16	5.76	15.68	9.95	13.70	10.32	1.11
^	3.82	7.60	4.20	9.50	11.75	89.5	6.93	9.45	11.43	68.8	11.41	3.74	7.60	9.06	10.72	8.12	2.11
٥	4.74	6.83	3.71	6.28	9.61	4.27	6.12	6.19	9.97	6.80	6.79	3.57	7.41	6.42	0.70	94.9	2.05
12	5.61	6.07	2.36	99.5	80.8	3.49	7.05	4.70	1.78	8.00	7.00	6.25	3.75	£.8	6.49	5.74	1.73
7.	2.57	3.56	0.85	2.48	4.78	1.39	2.51	1.83	7.4	2.19	2.32	2 30	3.67	2.29	2.64	2.59	0.97
36	1.24	1.53	0.61	1.64	3.01	0.63	1.73	1.16	2.38	1.42	1.64	1.24	1.74	1.26	1.26	1.50	0.61
8	0.0	9.76	0.27	96.0	2.13	0.29	1 . 05	0.95	1.54	1.06	1.10	0.63	1.33	6.73	0.88	0.97	0.47
09	0.55	0.70	B1.00	0.64	1.43	0.28	0.73	0.43	0.8	6.73	0.92	0.28	0.78	0.48	0.70	0.64	0.33
2.2	0.40	0.52	8100	05.0	1.21	BL00	BL00	0.38	99.0	0.51	0.53	B100	0.62	BL00	0.39	0.38	0.34

		at 3 C	Plasma Pen Capsules of	Plasma Fenofibric Acid Concentration (mg.f vs. spsules of the Conventional Form (Total amount	c Acid C	Oncentru	ation (c	ofibric Acid Concentration (mg.f vs. the Conventional Form (Total amount	time	After	(h) After Administration	Administration			
Post- dose time (h)	F	7	3	-	v	y	œ		10	п	12	£	7	15	16
•	BLOQ	Вгоб	вгод	D078	91.00	BL00	BLOQ	BLOQ	BLOQ	81.00	B1.00	B1.00	BLOO	B1.00	BLOQ
-	BL00	B1.00	B1.00	0.25	0078	B1.00	1.90	81.00	ВГОО	B C00	BL00	B1.00	BLOQ	BL00	81.00
~	BL00	Broo	0.25	4.67	0.34	1.52	5.83	8100	вгод	0.42	0.63	BC00	BL00	0078	1.20
_	1.76	0.99	2.16	7.39	4.51	3.72	8.89	2.45	1.53	1.7.1	1.55	1.0	1.40	0.47	3.79
~	3.24	4.62	5.57	9.13	8.83	5.00	5.76	5.12	6.54	4.37	3.58	3.47	4.75	1.48	5.08
s.	4.53	10.24	12.20	12.16	10.43	4.77	6.57	11.97	12.91	4.93	96.9	4.22	6.40	3.55	11.35
9	11.1	17.36	12.93	12.08	13.18	99.6	£. 62	14.17	18.00	9.03	11.45	4.30	11.12	10.65	17.47
۲	4.75	11.92	12.12	10.71	11.36	18.	5.90	12.31	14.42	80.0	10.58	4.17	13.21	10.11	16.35
۵.	3.64	6.21	9.29	8.39	9.63	6.34	5.80	7.33	10.86	6.37	8.25	6.34	10.22	7.21	11.79
12	4.34	7.03	6.20	6.90	96.6	99.0	5.30	6.67	7.50	5.11	7.09	12.05	9.16	5.74	90.
*	2.36	3.43	1.88	3.12	94.4	2.53	2.19	2.61	2.85	3.66	2.85	6.53	4.92	2.29	3.08
36	1.17	2.03	0.92	1.56	3.27	96.0	÷ -	1.14	1, 7,	•	1 18	3.31	2.31	1.33	1.69
•	0.70	1.17	19.0	1.02	2.06	0.49	0.71	96.0	06.0	1.07	0.92	1.72	1.39	0.81	1.03
09	0.49	0.50	0.43	99.0	1.77	0.31	0.74	0.81	0.58	69.0	0.55	0.81	1.13	0.54	0.74
72	вгоо	BL00	0.30	0.49	1.48	BL00	61.0	0.54	0.34	0.52	0 . 40	BL00	0.83	0.35	0 . 40
						-				1				_	

SUBSTITUTE SHEET (RULE 26)

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The bi availability, as measured by the extent of absorption (AUC) indicates, that 3 capsules of Example 1 of the present invention (201 mg of fenofibrate AUC = 195) are bioequivalent to 3 capsules of the conventional form (300 mg of fenofibrate AUC = 221).

That is, the bioavailability of fenofibrate from the composition of Example 1 of the present invention is 1.5 times higher than the bioavailability of fenofibrate of the conventional form.

10	EXA	MPLE 2		
	Fenofibrate	5	kg	
	Gelucire® 44/14		7.5 kg	ŗ
	Carbowax 20,000	1.5	kg	
	Hydroxypropylcellulose	2.5	kg	
15		16.5	kg	-

To a heated kettel, 7.5 kg of Gelucire® 44/14 and 1.5 kg of carbowax 20,000 were added and then heated at 85°C until all components are molten. 5 kg of fenofibrate was added slowly while continuously stirring. When all the fenofibrate was dissolved, 2.5 kg of hydroxypropylcellulose was added and agitation was maintained for about twenty minutes. Using a liquid filing capsule machine with dosing pumps heated at 85°C, capsules of size 0 were filled with 660 mg of solution. Upon cooling at room temperature the capsules were packaged in bottles. Each capsule so

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prepared c ntained 200 mg of fenofibrate. 12,701 capsules were produced and individually weighed. Results of the capsule weighing is shown in Table 3.

	TABLE 3 Capsules Weight Vari	lations From 12,701 Capsules
5	Theoretical Weight	764.5 mg
	Mean weight of acceptable capsules (95-105%)	763.9 mg
	Standard Deviation of Accepted Capsules	6-9 mag
10	Relative Standard Deviation of Accepted Capsules	0.93
	Percent of Rejected Capsules (below 95% of Theoretical Amount)	0.307%
15	Percent of Rejected Capsules (above 105% of Theoretical Amount)	0.039%

It may readily be appreciated from Table 3 that the filling process of the present invention is extremely accurate.

PHARMACOKINETICAL STUDY

The composition of Example 2 of the present invention was compared during a Pharmacokinetical study to the comicronized formulation available on the French market (Lypanthyl 200 M*).

The study was conducted as a single dose, randomized, four-way cross over study in 8 healthy subjects. The

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subjects were randomly assigned to one if four administration sequences. On each of the four sessions, separated by wash-out periods of 7 days, the subjects received either 200 mg of fenofibrate under the form Lypantyl 200 Me or 200 mg of fenofibrate under the form of Example 2 with and without a high-fat breakfast. Blood samples were taken before and at different times up to 72 hours after administration. The plasma concentrations of fenofibric acid was determined in the samples using on HPLC Method..

The pharmacokinetics parameters obtained are shown in Table 4.

TABLE 4 Pharmacokinetical Parameters After Administration of Lypantyl 200 MP and Composition of Example 2 Taken With and Without a High Fat Breakfast (Dose 200 mg of Fenofibrate) Without Food With Food Example 2 Lipanthyl Example 2 Lypanthyl 200M@ 200M® AUC₀₋₇₂ 107.0 101.0 181.0 184.7 C_ 5.1 5.9 11.1 10.9 5.9 5.2 5.2 5.7

The present composition may thus be advantageously used to treat hyperlipidemia and/or hypercholesterolemia in humans. Generally, the effective daily amount of fenofibrate from humans ranges from about 100 mg to 600 mg per day, and preferably from about 100 to 300 mg per day, with the precise amount being determined by the attending

physician, considering such parameters as c ndition severity and body weight, for example.

Having fully described the present invention, it will be apparent to one of ordinary skill in the art that many changes and modification may be made to the above-described embodiments without departing from the spirit and scope of the present invention.

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CLAIMS

- 1. A pharmaceutical composition for treating hyperlipidemia or hypercholesterolemia or both in a mammal, which comprises an effective amount of each of fenofibrate and an excipient comprising one or more polyglycolyzed glycerides.
 - 2. The composition of Claim 1, wherein said fenofibrate is present in an amount of 5% to 95% by weight based on the total weight of the composition.
 - 3. The composition of Claim 1, wherein the polyglycolyzed glycerides have a HLB value of at least 10.
 - 4. The composition of Claim 3, wherein the polylglycolyzed glycerides have a HLB value of from 12 to 15.
 - 5. The composition of Claim 1, which further comprises polyalkylene glycols to adjust the HLB value or melting point or both to the desired value.
- The composition of Claim 1, wherein a suspension
 stabilizer is added.
 - 7. The composition of Claim 6, wherein said suspension stabilizer is selected from the group and consisting of cellulose, povidone, poloxamers, α , Ω -hydroxy-poly(oxyethylene) poly(oxypropylene)-poly(oxyethylene)bloc polymers.

- 8. The composition of Claim 1, in which said fenofibrate and said excipient are in unit dosage form and are contained in a hard gelatin capsule.
- 9. The composition of Claim 8, wherein said hard
 5 gelatin capsule contains from about 67 mg to about 200 mg
 of fenofibrate.
- 10. A method of making a solid oral dosage form of a pharmaceutical composition, comprising an effective amount of each of fenofibrate and an excipient comprising one or more polyglycolyzed glycerides, which method comprises adding said molten fenofibrate and said excipient to hard gelatin capsules, and allowing said said molten fenofibrate and said excipient to cool therein.
- 11. A method of treating hyperlipidemia or

 hypercholesterolemia or both in a mammal in need threof,
 which comprises administering to said mammal an effective
 amount of a pharmaceutical composition, comprising
 fenofibrate and an excipient containing one or more
 polyglycolyzed glycerides.
- 12. The method of Claim 11, wherein said mammal is human, and said effective amount of fenofibrate in said composition is from about 100 mg to 600 mg per day.
- 13. The method of Claim 12, wherein said effective amount of fenofibrate in said composition is from about 100 mg to 300 mg per day.

- 14. The method of Claim 11, wherein said composition is administered orally.
- 15. The method of Claim 10, which is with the proviso that the fenofibrate used is not co-micronized.

INTERNATIONAL SEARCH REPORT

anal Application No

A. CL	ASSIFICATION OF SURJECT MA		PCT/BE 96/00002
126	ASSIFICATION OF SUBJECT MATTER 6 A61K31/22 A61K9/48	<u>_</u>	
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C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Caregory	Citation of document, with indication, where appropriate	e, of the relevant passages	Relevant to claim N
P.X		·	NOTICE DI CIEM N
. •••	W0,A,95 24893 (R. P. SCHEREI September 1995	R LTD.) 21	1-4,6-15
	see claim 1		, , , ,
	see page 13, line 5 - page 1	5, line 7	
	see page 25, line 3 - line 4 see page 44; example 6		
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	documents are listed in the continuation of box C.	X Patent (amily member	73 are listed to enner
	ories of cited documents:		
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INTERNATIONAL SEARCH REPORT

PCT/BE 96/00002

B x I Ob	servations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This internal	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Re th al	ims Nos.: ause they relate to subject matter not required to be searched by this Authority, namely: mark: Although claims 11-14 are directed to a method of treatment of e human/animal body the search has been carried out and based on the leged effects of the composition. ims Nos.: ause they relate to parts of the international application that do not comply with the prescribed requirements to such extent that no meaningful international search can be carried out, specifically:
beca	ims Nos.: Luse they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). Servations where unity of invention is lacking (Continuation of item 2 of first sheet)
	tional Searching Authority found multiple inventions in this international application, as follows:
	all required additional search fees were timely paid by the applicant, this international search report covers all chable claims.
	all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment ny additional fee.
3. As a	only some of the required additional search fees were timely paid by the applicant, this international search report ers only those claims for which fees were paid, specifically claims Nos.:
4. No rest	required additional search fees were timely paid by the applicant. Consequently, this international search report is ricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on P	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

information on patent family members

Inv 2014 Application No PC1/BE 96/88882

Parent de la			1 101/02	30/60002
Patent document cited in search report	Publication date	Patent memb		Publication date
WO-A-9524893	21-09-95	AU-B-	1897495	03-10-95
				03-10-33



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Published

With international search report.

(54) Title: PHARMACEUTICAL COMPOSITION CONTAINING FENOFIBRATE AND POLYGLYCOLIZED GLYCERIDES-

(57) Abstract

A pharmaceutical composition is provided for treating hyperlipidemia or hypercholesterolemia or both in a mammal, which contains an effective amount of each of fenofibrate and an excipient containing one or more polyglycolyzed glycerides.

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